

IN THE CLAIMS

Claim 1 (Canceled)

Claim 2 (Canceled)

Claim 3 (Canceled)

Claim 4 (Canceled)

Claim 5 (Canceled)

Claim 6 (Canceled)

Claim 7 (New): A spark plug for the controlled burning of a fuel/air mixture at a defined burn zone within a combustion chamber in the cylinder of an internal combustion engine comprising:

an elongated electronically non-conductive body;

an ignitor electrode supported by said non-conductive body and having a distal tip extending into said burn zone;

an elongated conductive body surrounding said non-conductive body and having a horn nozzle immediately adjacent said tip in spaced-apart relationship;

at least one post joining said horn nozzle with said conductive body and to hold said horn nozzle in spaced-apart relationship with respect to said conductive body to define said burn zone;

vent slots provided in said burn zone by said posts for exhausting gasses therethrough exteriorly of said horn nozzle;

said horn nozzle is circular having a conical inner side wall terminating adjacent said tip in a reduced throat diameter and terminating exteriorly with an enlarged mouth of greater diameter than the diameter of said throat diameter;

said side wall constituting an open-ended flared frustum-conical passageway having a curved surface in transverse cross section;

said distal tip of said ignitor electrode is spherical and resides within said throat of said horn nozzle defining an annular linear entrance leading into said throat; and

said ignitor electrode bendable for adjustment with respect to distance from said horn nozzle with said throat.

Claim 8 (New). A spark plug for the controlled burning of a fuel/air mixture at a defined burn zone within a combustion chamber in the cylinder of an internal combustion engine comprising:

a non-conductive body;

a conductive body supporting said non-conductive body;

an ignitor electrode carried by said non-conductive body having an exposed distal tip of rounded configuration;

a ground electrode supported by said conductive body and having a horn nozzle with an frustum-conical passageway defined by a tapered inner wall leading from a mouth to a throat partially encircling said distal tip of said ignitor electrode;

a pair of posts integrally connecting said non-conductive body with said horn nozzle to define venting slots between said conductive body and said horn nozzle; and

said mouth commencing with a linear annular opening downwardly merging with a bell-shaped side wall.